

A METHOD OF SEPARATING CO₂ FROM HYDROCARBON GAS

ABSTRACT OF THE DISCLOSURE

A method of separating CO₂ from a hydrocarbon gas inlet stream that is within predetermined pressure and temperature ranges including the steps of subjecting the inlet stream to fractional distillation providing a bottom product stream and a distillation overhead stream, passing the distillation overhead stream to a membrane unit producing a CO₂ by-product stream and a hydrocarbon stream and chilling the hydrocarbon stream to produce a reflux liquid stream and a hydrocarbon gas product.